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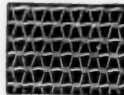
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FROM MANY FIELDS**Filling Shipping-Cases.**

Having read Mr. Doolittle's article on "Filling Shipping-Cases with Sections," on page 711, and noticing the trouble he had with putting in the sections, as the paper tray was usually torn, I decided to let him know that he could do away with his tin, by a much easier method, which I discovered at the filling of my second shipping-case.

When putting in the second last section, push it against the wall of the case and then the last one next to it, or fill up all around the wall first, and at last in the center. I think Mr. Doolittle will find this method much more convenient and easier, if he will try it.

Clinton Co., Ill.

J. D. HOLDENER.

Results of the Past Season.

I have 85 colonies. The honey season for 1902 was poor. I took 3500 pound sections of honey in August. September has always been our best month, but this year we did not get a section after August.

ALFRED E. SMITH.

Posey Co., Ind., Dec. 2.

Young Queens Swarming.

My first swarm came out May 21, and was put in a hive filled with old comb, and the same queen had a swarm out the last of June, and left 15 pounds of honey in sections.

The colony that swarmed May 21 cast a swarm August 3; that was a very large swarm, as large as any I ever saw, and I have kept bees the past 30 years. This young queen must have laid the eggs of this swarm that was hived August 3; and November 22 it was killing off the drones.

All three new colonies have enough to winter on. They are Italian bees and are in movable-comb hives.

C. HODGKINS.

Cheshire Co., N. H., Dec. 3.

A Shade-Board for Hives.

On page 728, W. R. Ansell describes, before the Minnesota Bee-Keepers' Convention, a shade-board made of laths and shingles.

Would it be possible to have his method of shading described a little more particularly? It might also be practical to insert the illustrations which Mr. Ansell presented at the convention.

I believe that many bee-keepers are interested in a practical shade-board, and would appreciate it if this shading-board were fully described.

I am just preparing my bees for wintering, and find I have 87 colonies in good condition. Bees have not gathered much honey this year, and I never have seen bees as mean and angry as they were this year. I suppose the changeable cold weather was the cause of it.

I like the American Bee Journal very much, and have received a great deal of valuable information from it.

R. A. HOLEKAMP.

St. Louis Co., Mo., Dec. 2.

[A picture of Mr. Ansell's shade-board was sent us, but it was not the right kind to make an engraving. If he will send us a good one, with full description, we will be glad to publish all.—EDITOR.]

Keeping Bees on Shares.

From the comical aspect, this little branch of the great apicultural waters does not glide away to a haven of peace and rest; but in reality there is no better or cheaper way for the beginner to get a start in bees, and, in many cases, may be the best way for the apiarist who is overstocked with bees, to manage his surplus colonies. Else out-apiarists

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must be started, which means a great expense, and calls for almost ceaseless attention.

In letting bees out on shares, one is then free to turn his attention to other matters, and all that is made is clear gain. While one has the whole production of an out-apiary, after the expenses are taken out, the profit is more than apt to fall below what it would have been if the bees had been out on shares of half.

I have kept bees on shares, and have let them out on shares; in fact, I still have 8 colonies that I am keeping in this way, and have over 200 colonies out on shares, scattered about among a number of farmers, and covering a range of 300 miles, in two States. Yet I have never had the slightest misunderstanding with any with whom I had dealings in this respect.

It was necessity which forced me to adopt this method of disposing of my surplus colonies at first; but I am now free to place my bees in out-apiaries and tend them myself, and I do not care to.

In order to avoid any misunderstanding, the whole agreement is put in writing, and provision made for every detail, however trifling. Then, as soon as the honey season is over, a division of stock is usually made, and each party takes his chances of wintering. The old colonies, of course, are not divided, but remain the property of the one who let them out in the spring for a share of what they may produce in swarms and honey.

The man who has nothing to do but attend his out-apiaries can sometimes make these quite profitable; but for one who has other matters to claim a good share of his attention, it may be best to let his surplus colonies out on shares.

Saline Co., Ark.

L. E. KERR.

Sweetening Sour Honey.

On page 763 is a query in regard to sweetening sour honey. I have had some experience along that line, and will give my method of treatment. Last fall I had four tons of sour honey, it was thoroughly candied before it commenced to sour, and some of it was fermented so badly that the cans bulged and had to be replaced with others. I procured a galvanized-iron tank capable of holding ten 60-pound cans. I sawed strips of board, placing them on the bottom of the tank. I then filled the tank with water, until $\frac{3}{4}$ of the can was submerged, built a fire under the tank, and in about 5 hours the first lot was thoroughly heated and ready to be taken out and poured into a large honey-tank. I continued to treat each lot the same until it was all finished, then let it stand 4 or 5 days, and when thoroughly cool skimmed off what foam had risen, and I had as good a grade of honey as before it soured, and I think the color had improved. In heating, the honey had a tendency to run out of the can; to obviate that it will be necessary to draw a little from each as it melts. An old pop or squirt gun answers for that purpose. Whatever is drawn off must be thoroughly heated before being added to the tank. I had a separate vessel to heat that in.

Ventura Co., Calif.

W. W. VARNER.

A Broken Silence—Rearing-Queens.

Except for Dr. Gallup's startling discovery, as told on page 408, I should not think of disclosing the remarkable facts which are to follow. But when the "cat is out of the bag" why seek to keep secret longer that which so mightily concerns the rearing of queens full of years?

It was early in my bee-keeping career that I first noticed the umbilical cord (scientific name, pupaskinna castoffica) of the queen-bee. I attached great importance to that attachment, and immediately placed an attachment on my discovery. What I recovered and discovered is as follows:

I reasoned that the royal jelly is so thick and tough that the poor queen, in the short time at her disposal, could only get a little benefit from the food through the umbilical cord—pupaskinna castoffica. If I could substitute a thin and vitalizing fluid I could, per

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Please write us, stating source gathered from, quantity, and price delivered here. It must be put up in no-drip cases. Address,

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5-oz. " " " " " 3.00	1-lb. Octagon, spring top, gross, 5.25
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100 lbs. white sweet-scented clover, \$10	100 lbs. White Dutch, \$20
100 lbs. yellow " " " \$15	1 oz. Catnip seed, 10c
100 lbs. Alfalfa clover, \$12	1 oz. Rocky Mountain Bee-plant, 15c
100 lbs. Alsike clover, \$15	

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haps, work wonders. After much thought I proceeded as follows:

On June 2, 3:05 p.m., I transferred 500 freshly laid eggs from ten of my best queens to cell-cups previously prepared. These 500 cups were given to 100 strong, queenless colonies, five to each. On June 16, 4:07 p.m., at which hour the pupaskinna castoffica is wont to appear, I carefully removed the 500 nymphs (royal) from these cradles and laid them in a row on a downy strip of cotton-batting. After much scrutiny I selected the fairest of the 500 and most carefully set her to one side. With a hypodermic syringe I now took the lives of the 499 remaining princesses, carefully drawing each out through the pupaskinna castoffica (umbilical cord—E. Gallup). With considerable skill I now injected through the pupaskinna castoffica of the selected nymph these lives at the rate of 15 per minute until I had injected 299. The remaining 200 were reserved for a most delicate operation.

By the aid of the X-rays (yes, I knew all about the X-ray at the time, but refrained from giving my discovery to an incredulous world), I now injected 100 of the remaining lives into each ovary of my princesses—destined to be a queen full of years.

It required the utmost skill to insert the syringe under the third abdominal ring and into the delicate ovary. Had it not been for the fact that the subject had been given 299 lives through the pupaskinna castoffica I fear that I should have failed here.

The royal subject was now put into a cell and given to a nucleus in a glass-hive so I could watch what followed. I tell you true, I watched there 55 hours and 10 minutes. The queen first began to show vitality at the end of the 31st hour, by smitting piping that caused the glass of the hive to shiver. At the close of the 32nd hour she came forth, an ordinary queen except for her exceeding activity.

In less than four hours she showed signs of anxiety to take her marriage-flight. My task was not yet done.

I had the day before prepared 1000 lusty drones from the best stock in my yards. The task of dissecting out the male elements of each was a tremendous one, but I succeeded in getting at least three grains of the rich fluid. This fructificative fluid was injected into the retaining-sac of the queen. Here again the excessive vitality of the subject was called upon, not to mention the elasticity of the retaining-sac. The queen laid her first egg three hours and ten minutes from the moment the syringe ceased its work.

Such a queen! A brief mention of what she did in her 10th year will show her worth. I kept her in her 10th year with a colony of her three-year-old workers. I kept no other queens except two in my log-gums and one in a straw skep. This queen laid all the eggs for my 20 regular colonies. She would fill 10 frames in 24 hours. I simply set in empty frames as I took out full ones to give to the other colonies.

Space will not allow me to tell much about the wonderful work of the mammoth 20 colonies. I will merely state that the workers never die of old age. They all meet death through violent causes. (I might digress to



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What is more pleasing to the eye than an athletic, clear skinned, deep chested man, ready to toil or play, with the free, easy grace of perfect health? The kind of man that goes singing about his work, because he feels that way.

WATKINS' VEGETABLE ANODYNE LINIMENT

will not make a lazy man muscular, but it will keep the body in such perfect condition that the food you eat, the work you do, will all help to build up a big, strong body. It is the cold in the chest, followed by a troublesome cough that breaks down so many strong bodies. A dose of Watkins' Liniment will stop it all before the harm has been done. **No running for Doctor, no paying big doctor bills.** Use internally or externally for **Colds, Coughs, Colic, Diarrhoea, Dysentery, Cholera Morbus, Indigestion, Cuts, Burns, Bruises, for man or beast.**

Watkins' Liniment is good for so many diseases because of the large number of valuable ingredients, each of which does its own work, and does not interfere with the others. Let our agent leave a bottle at the house. If there is no agent in your neighborhood, write to us, and we will see that you are supplied.


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Basswood Honey

This is the well-known light-colored honey gathered from the rich, nectar-laden basswood blossoms. It has a stronger flavor than Alfalfa, and is preferred by those who like a distinct flavor in their honey.

Write for Quantity Prices by Freight, if Interested.

A sample of either, by mail, 10 cents, to pay for package and postage.

Order the Above Honey and then Sell It.

We would suggest that those bee-keepers who did not produce enough honey for their home demand this year, just order some of the above, and sell it. And others, who want to earn some money, can get this honey and work up a demand for it almost anywhere.

GEORGE W. YORK & CO., 144 & 146 E. Erie St., Chicago, Ill.

the extent of saying that I once saw a spider eat one of these bees. That spider was immediately so filled with vitality that she went on a stampede; and it is a fact that spiders could not stay in the vicinity of these hives.) Some of the colonies occupied 3000 sections at one time. I had to give an entrance the whole bigness of the hive-bottom.

Though the queen was endowed with such amazing vitality her claws would wear out as fast as those of an ordinary queen, and at the end of the sixth year she experienced difficulty in clinging to the combs. I experimented a long time before I discovered a way to help her. Finally I replaced her six feet with those of a young queen, cementing them on with royal jelly. The task was done so easily and well that the royal circulation was scarcely interrupted. I now practice giving her a new set of feet and new antennae every second year, believing that it pays to do so.

Hoping to hear more from Dr. Gallup and the umbilical cord (pupaskinna castoffica),
Yours truly, BARON M. LIEAWFUL.

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	5lb	10lb	25lb	50lb
Sweet Clover (white).....	\$.75	\$1.40	\$3.25	\$6.00
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White Clover	1.20	2.30	5.50	10.50
Alfalfa Clover80	1.40	3.25	6.00

Prices subject to market changes.

Single pound 5 cents more than the 5-pound rate, and 10 cents extra for postage and sack.

Add 25 cents to your order, for cartage, if wanted by freight, or 10 cents per pound if wanted by mail.

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HONEY AND BEESWAX

MARKET QUOTATIONS.

CHICAGO, Dec. 8.—There is no special change in the honey market, prices remain as last quoted and the volume of sales are not large. The weather is such as usually prevails at this season of the year, and the cold may induce people to buy more freely. Best lots of fancy white comb honey brings 16c per pound; No. 1 to choice, 15c; off grades, 2c to 5c less, and not much demand for them. Extracted, 7 1/4c for white; amber, 6 1/2c; Southern, 5 1/4c. Beeswax, 30c. R. A. BURNETT & Co.

ALBANY, N. Y., Nov. 22.—Honey market is still in strong position with ready demand for all receipts at good prices. Fancy white comb, 16c; A No. 1, 15c; No. 2 and mixed, 14 1/4c; buckwheat, 14 1/4c. Extracted, buckwheat scarce at 6 1/4c to 7 1/4c; light grades more plenty at 6 1/4c to 7c. Beeswax, 29 1/2c. H. R. WRIGHT.

BOSTON, Oct. 20.—Our honey market remains firm, with good demand and fair stocks on hand. Honey is not coming forward as fast as usual, and the tendency of prices is steady. We quote our market as follows: Fancy white 1-pound sections in cartons, 16c; No. 1, 15c; No. 2, very light supply, 14c; glass-front sections generally one cent less than this. Extracted, light amber, 8c; amber, 7 1/4c.

BLAKE, SCOTT & LEE.

KANSAS CITY, Dec. 6.—We quote fancy white comb honey, per case 24 sections, \$3.50; No. 1 white, per case 24 sections, \$3.40; No. 2 white and amber, per case of 24 sections, \$3.25. Extracted, white, per pound, 7c; amber, 6c. Beeswax, 27 1/2c.

Our market has changed quotations of comb honey from pound to the case.

C. C. CLEMONS & Co.

CINCINNATI, Dec. 8.—The demand for honey, both extracted and comb, has eased off somewhat the past few weeks, however the prices rule steady, as follows: Extracted, amber, in barrels, 6 1/2c; white clover, 8 1/2c. Comb honey, fancy, 16 1/2c; amber, 11 1/2c. Beeswax, 29 1/2c. THE FRED W. MUTH CO.

NEW YORK, Dec. 8.—Demand for comb honey not quite as brisk, owing, we presume, to the fact that prices have been ruling higher. Supply, however, is moderate, and there is no other stock on the market.

Prices remain unchanged; fancy white, 15c., with exceptionally fancy at 16c; No. 1, 14c; No. 2, 12 1/2c; buckwheat and amber, 11 1/2c. Extracted, white, 7 1/4c; light amber, 6 1/2c; dark, 5 1/2c. Beeswax in fair demand at 28 1/2c.

HILDETH & SROELKEN.

CINCINNATI, Dec. 12.—The comb honey market is a little quiet, almost everybody is filled up. As there is hardly any new supply coming in, there is no change in prices, namely: Fancy water-white, 16c; off grades less. The market for extracted white clover shows a slight advance. Fancy white clover brings 8 1/2c; alfalfa water-white, 6 1/4c to 7 1/4c; but amber, if anything, has weakened. I quote same, in barrels, 5 1/4c to 5 1/2c. Beeswax, 27 1/2c.

C. H. W. WEBER.

SAN FRANCISCO, Nov. 12.—White comb honey, 10 1/4c to 11 cents; amber, 9 1/2c; dark, 5 1/2c. Extracted, white, 6 1/2c; light amber, 4 1/2c to 5 1/2c; amber, 3 1/2c to 4c. Beeswax, good to choice, light, 26 1/2c; strictly fancy light, 29 1/2c.

White is reported scarce; light amber honey in fair supply. The bulk of California produced honey is sold for Eastern shipment in carload lots from producing point at bottom price. Small lots of choice honey that can be used in local trade bring more. Quotations here given are current prices to producer, f.o.b. shipping point, on Eastern basis for extracted and California basis for comb.

Wanted Comb and Extracted Honey!

State price, kind and quantity.

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The picture shown herewith represents the best one-pound jar for honey we know of. It is made of the clearest flint glass, and when filled with honey, and a neat label attached, it makes as handsome a package as can be imagined. Its glass top sets on a flat rubber ring, and is held in place by a flat steel spring across the top as shown in the picture. It is practically air-tight, thus permitting no leak,

which is an important thing with honey-sellers.

We can furnish these jars, f.o.b. Chicago, at these prices: One gross, \$5.00; two gross, \$4.75 a gross; five or more gross \$4.50 per gross.

If you try them once you will likely use no other kind of top or sealing arrangement for honey jars.

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The classic in Bee-Culture—Price, \$1.25, by mail.**BEE SWAX** wanted at all times.....**DADANT & SON,**
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Why not get.....**The "Post" Fountain Pen**

The very best in the market; regular price, \$3.00, and not obtainable under this price anywhere. The Six Cardinal points Peculiar to the "Post":

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